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METHOD OF PRODUCING BRIGHT ANODIZED FINISHES FOR HIGH MAGNESIUM, ALUMINUM ALLOYS

ABSTRACT OF THE DISCLOSURE

A method is disclosed for forming a clear anodized coating on an aluminum base alloy containing more than three percent by weight magnesium. The alloy surface to be anodized is treated with an aqueous solution of a mineral acid such as sulfuric acid (10 to 20%), nitric acid (10 to 30%) or phosphoric acid (40 to 80%) under the influence of a relatively low voltage direct current. This treatment suitably reduces the magnesium content of the surface layer and, subsequently, a relatively low current density anodization in sulfuric acid produces the clear coating. The clear coating may then be colored by known processes.

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